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In the Specification:

Replace the paragraph beginning on page 7, line 5 as follows:

--A multi-threading approach used to reduce the testing time allocates a separate thread to trace each clock path; [[,]] however, an adequate number of CPU's is required to allocate resources to each thread. Another problem is that the total trace time still depends on the time required to trace the largest scan chain. For example, if four scan chains each having an equal length of 10,000 flip-flops requires 20 hours to trace, then five hours would be required in an ideal multi-threading allocation of resources for [[to]] four threads in a parallel processing environment. Another disadvantage of the multi-threading approach is the complexity of designing an algorithm to manage threads and to merge the results from each of the threads.--